

CUPS Astra Linux

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CUPS

CUPS Astra Linux

```
systemctl status cups
```

```
sudo apt install cups
```

```
, parsec-cups:
```

```
sudo apt install cups parsec-cups
```

- 1. fly-admin-printer.
- 2. web- web- :

localhost:631/admin

- 3. web- ,
- 3. cupsctl - sudo , (.). cupsctl .

, (), lpadmin (, " ") , SystemGroup /etc/cups/cups-files.conf.

! Astra Linux Special Edition x.7

, /etc/cups/cupsd.conf. Kerberos, . man cupsd.conf.

, /etc/sudoers.d/lpadmins :

```
%lpadmin ALL=(ALL:ALL) NOPASSWD: /usr/bin/systemctl restart cups  
%lpadmin ALL=(ALL:ALL) NOPASSWD: /usr/bin/systemctl stop cups  
%lpadmin ALL=(ALL:ALL) NOPASSWD: /usr/bin/systemctl start cups  
%lpadmin ALL=(ALL:ALL) NOPASSWD: /usr/bin/systemctl status cups
```

, lpadmin, sudo , cups . man sudoers.



Astra Linux

()

, Astra Linux Special Edition, lpmac () lpmac_ald (). MacAdmin /etc/cups/cupsd.conf ().

, .. localhost.

1. web- web-.
2. :

```
sudo cupsctl --remote-admin
```

--remote-admin - .

1. web- web-.
2. :

```
sudo cupsctl --share-printers --remote-any ServerAlias=`hostname`
```

:
• --share-printers - ;
• --remote-any - (, ,);
• ServerAlias - "" . cups HTTP-, (, IP- DNS). **() . . , (cupsctl). , , , localhost.
3. DefaultAuthType Basic;
4. :

```
sudo cupsd -t
```

5. CUPS :

```
sudo systemctl restart cups
```

6. CUPS :

```
sudo systemctl status cups
```

web- CUPS

1. web- :

```
localhost:631/admin
```

2. " ".
3. , **lpadmin**.
4. , . (, USB- USB Printer #1). , " ".
5. .

 USB-

6. , Print Test Page () Maintenance ().
7. , , .

```
lp -d *_* *_*
```

```
lpadmin -p printername -E -v socket://11.22.33.44 -m drv:///sample.drv
/laserjet.ppd
```

LibreOffice

 LibreOffice" Astra Linux Special Edition .10015-01 (1.6) 20210611SE16 (7)

LibreOffice (- -) . , Fly, /etc/cups/client.conf :

```
DiscoveredOnly Yes
```

cups:

```
sudo systemctl restart cups
```

```
/etc/cups/printers.conf /etc/cups/ppd/*      scp:
```

```
scp /etc/cups/printers.conf 10.10.10.10:/etc/cups/
scp /etc/cups/ppd/* 10.10.10.10:/etc/cups/ppd/
```

1.

```
2. ( , Astra Linux Special Edition parsec ). fly-admin-printer (. ) web- CUPS.  
3. /etc/cups/client.conf, ServerName, :  
ServerName <__>
```

Kerberos

```
Kerberos , . /etc/cups/client.conf, ServerName, :  
ServerName <__>
```

Kerberos FreeIPA

FreeIPA

- dc.domain.ipa – FreeIPA;
- printserver.domain.ipa (cups FreeIPA, printserver dc);
- client.domain.ipa – FreeIPA.

FreeIPA

FreeIPA (CLI) FreeIPA. CLI FreeIPA.

1. Kerberos (CLI FreeIPA. admin):

```
kinit admin
```

2. :

a. , , print_admins:

```
ipa group-add print_admins  
-----  
"print_admins"  
-----  
: print_admins  
ID : 848400014
```

b. - :

```
ipa group-add lpmac_ald
```

3. , , print-admins. :

a. print_admin:

```
ipa user-add print_admin --first <> --last <>
```

b. print_admin print_admins:

```
ipa group-add-member --users=print_admin print_admins
```

c. (- print_admin) lpmac_ald :

```
ipa group-add-member --users=print_admin lpmac_ald
```

4. ipp (cups fly-admin-cups):

```
ipa service-add ipp/printserver.domain.ipa
```

5. web-cups , HTTP:

```
ipa service-add HTTP/printserver.domain.ipa
```

1. - (Astra Linux Special Edition -) ;

2. Kerberos :

```
sudo kinit admin
```

3. /etc/krb5.keytab:

a. ipp:

```
sudo ipa-getkeytab -p ipp/printserver.domain.ipa@DOMAIN.IPA -k /etc/krb5.keytab
```

b. web-cups:

i. , :

```
sudo ipa-getkeytab -p HTTP/printserver.domain.ipa@DOMAIN.IPA -k /etc/krb5.keytab
```

ii. , HTTP(-r):

```
sudo ipa service-allow-retrieve-keytab HTTP/dc.domain.ipa --groups=admins  
sudo ipa-getkeytab -p HTTP/dc.domain.ipa@DOMAIN.IPA -k /etc/krb5.keytab -r  
sudo ipa service-disallow-retrieve-keytab HTTP/dc.domain.ipa/ --groups=admins
```

Kerberos web-.

4. , :

```
sudo klist -kte /etc/krb5.keytab
```

Kerberos Windows AD

- CUPS Kerberos AD
- CUPS Kerberos KEYRING:persistent AD

Kerberos ALD

Kerberos ALD FreeIPA, .

1. **ALD** :

```
sudo ald-admin group-add print_admins
```

2. **ALD lpmac_ald:**

```
sudo ald-admin group-add lpmac_ald
```

3. */etc/cups/cups-files.conf* **SystemGroup () print_admins;**

4. **ALD ALD, :**

```
sudo ald-admin user-add print_admin
sudo ald-admin group-mod print_admins --add-users --user=print_admin
sudo ald-admin group-mod lpmac_ald --add-users --user=print_admin
```

5. **ALD ALD ALD, . . . :**

```
sudo ald-admin service-add ipp/server.my_domain
```

6. **mac, :**

```
sudo ald-admin sgroup-svc-add ipp/server.my_domain --sgroup=mac
```

7. **Kerberos ALD ald-client, :**

```
sudo ald-client update-svc-keytab ipp/server.my_domain
```

8. **sudo :**

```
sudo cupsctl DefaultPolicy=default ServerName=server.my_domain
MacEnable=On DefaultAuthType=Negotiate
```

9. **CUPS, :**

```
sudo systemctl restart cups
```

CUPS

CUPS FreeIPA ALD.

1. */etc/cups/cups-files.conf* :

```
SystemGroup lpadmin
```

:

```
SystemGroup lpadmin print_admins
```

 , . , lpadmin, admins , , admins .

2. , " ". ():

```
sudo cupsctl DefaultPolicy=authenticated ServerName=printserver.domain.  
ipa MacEnable=On DefaultAuthType=Negotiate
```

```
/etc/cups/cupsd.conf, () ("=" , ):
```

```
DefaultAuthType Negotiate  
DefaultPolicy authenticated  
ServerName printserver.domain.ipa
```

3. :

```
sudo cupsd -t
```

4. CUPS :

```
sudo systemctl restart cups
```

Kerberos

, cupsd:

1. Kerberos, sudo:

```
sudo kdestroy -A
```

2. (,), :

```
sudo cupsctl DefaultPolicy=default
```

:

```
cupsctl:
```

():

```
cupsctl:
```

3. Kerberos print_admin, :

```
sudo kinit print_admin
```

4. , Kerberos ;
5. :

```
kdestroy -A  
/usr/sbin/cupsctl DefaultPolicy=default  
#  
kinit print_admin  
/usr/sbin/cupsctl DefaultPolicy=default  
#
```

Astra Linux Special Edition 1.6 20190222SE16 (1.6.2) :

•
•

fly-admin-printer.

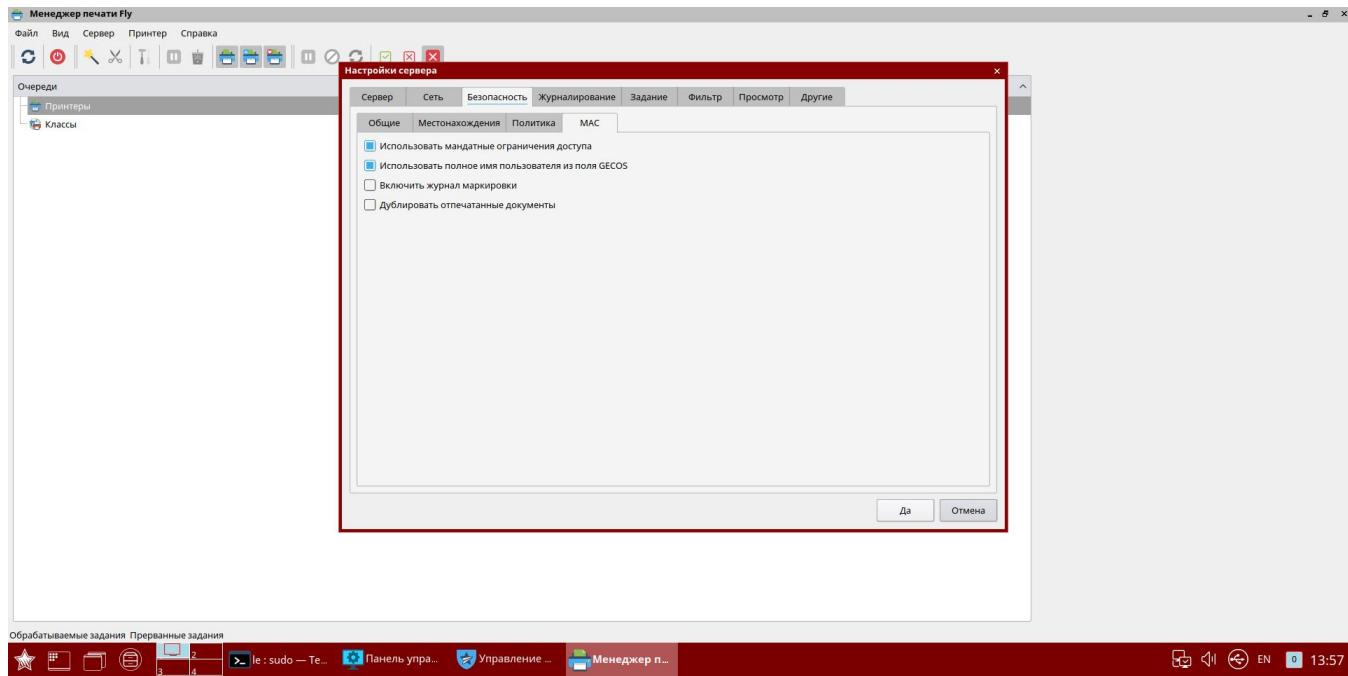


/var/spool/cups/pars... (root), , lp.

sudo fly-admin-printer



" " / " ".



/etc/cups/cupsd.conf.

/usr/share/cups/cupsd.conf.default:



```
...  
#rbt  
MacEnable on  
#MacDuplicate off  
#MacJournal off  
#MacFullUserName on  
#  
#MarkerUser ipp  
#MaxLogSize 0  
#rbt  
...
```

- Astra Linux Special Edition .10015-01 (1.6) [20211008SE16 \(9\)](#);
- Astra Linux Common Edition 2.12.43.

- : " " . . .
- : " " /etc/cups/cupsd.conf :

```
MyJobsAccessOnly On
```

CUPS.



- (, lpadmin).

parsec-cups.

Astra Linux Special Edition, , , , .

().

Astra Linux Special Edition .10015-01 (1.6) :

- fly-admin-printer(""> ""> "");
- fly-jobviewer, fly-admin-printer,
: "" "" "",
- markjob.



, lpmac.

fly-admin-printer:

- ;
- , "";
- , , "";
- , , "";
- , , "";
- , , "".

markjob:

- ;
- ;
- ;

•

;



/etc/cups/marker.template.